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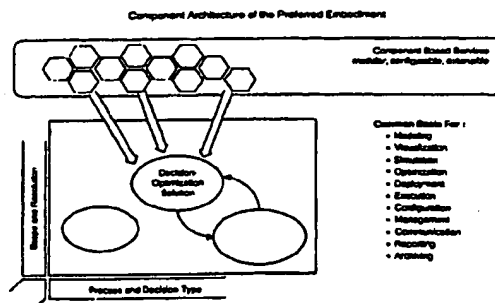
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ning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM AND METHOD FOR ENTERPRISE MODELING, OPTIMIZATION AND CONTROL.



(57) Abstract: A system and method for performing modeling, prediction, optimization, and control, including an enterprise wide framework for constructing modeling, optimization, and control solutions. The framework includes a plurality of base classes that may be used to create primitive software objects. These objects may then be combined to create optimization and/or control solutions. The distributed event-driven component architecture allows much greater flexibility and power in creating, deploying, and modifying modeling, optimization and control solutions. The system also includes various techniques for performing improved modeling, optimization, and control, as well as improved scheduling and control. For example, the system may include a combination of batch and continuous processing frameworks, and a unified hybrid modeling framework which allows encapsulation and composition of different model types, such as first principles models and empirical models. The system may further include a more flexible configuration of the decision-making hierarchy. The system further includes an integrated process scheduling solution referred to as process coordinator, which is an enterprise scheduling / control application that seamlessly incorporates the capabilities of advanced control and execution into a real time event triggered optimal scheduling solution. The process coordinator includes a number of innovations, including schedules based on real time information, unification of scheduling and control tasks, and blending of batch and continuous representations. The process coordinator system may thus operate to combine scheduling and control into a powerful hybrid environment.

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